

## UNITED STATE DEPARTMENT OF COMMERCE Patent and Trademark Office

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APPLICATION NO.   FILING DATE	FIRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.
09/497,422 02/03/0	0 BERRY	s	ARC2914R1
022921 ALZA CORPORATION	HM12/1228	7	EXAMINER
P O BOX 7210 INTELLECTUAL PROPERTY DEPARTMENT		FUB	ARA,B
		ART UNIT	PAPER NUMBER
MOUNTAIN VIEW CA 940	39-7210	1615 DATE MAILED:	5
• .			12/28/00

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

1.				
•	Application No.	Applicant(s)		
Office Action Summary	09/497,422	BERRY ET AL.		
Office Action Summary	Examiner	Art Unit		
	Blessing M. Fubara	1615		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	h the correspondence address		
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by str  - Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).  Status	N. R 1.136 (a). In no event, however, may a reply within the statutory minimum of thir iod will apply and will expire SIX (6) MON atute, cause the application to become AB	reply be timely filed  by (30) days will be considered timely.  ITHS from the mailing date of this communication.  ANDONED (35 U.S.C. & 133)		
1) Responsive to communication(s) filed on <u>F</u>	Paper No. 7 .			
2a)⊠ This action is <b>FINAL</b> . 2b)□	This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.				
4a) Of the above claim(s) is/are without	drawn from consideration.			
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-38</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claims are subject to restriction and	d/or election requirement.			
Application Papers				
9) The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are objected to by the Examiner.				
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved.				
12) The oath or declaration is objected to by the Examiner.				
Priority under 35 U.S.C. § 119				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).				
a) All b) Some * c) None of:				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.				
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).				
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Attachment(s)	45.	O		
<ul> <li>15) Notice of References Cited (PTO-892)</li> <li>16) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>17) Information Disclosure Statement(s) (PTO-1449) Paper No</li> </ul>	) 19) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)		

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## DETAILED ACTION

Examiner acknowledges paper number 7 filed 11/6/00.

## Claim Rejections - 35 USC § 103

Rejection of claims 1-33 and 35-38 under 35 U.S.C. 103(a) is maintained as addressed in paper number 4.

1. Applicants' arguments filed 11/06/00 have been fully considered but they are not persuasive. The claimed invention is obvious over the prior art of record as addressed in paper number 4.

## Response to Arguments

Applicants argue that there is no motivation or suggestion to combine or to modify the cited references. Applicants argue that Roorda et al. in column 2, lines 15-21 states that particles of biologically effective agent microencapsulated in a diffusion-limiting shell are difficult to manufacture and that it is difficult to control the release rate of the agent from the shell. It is the examiner's position that the instant invention is obvious over the references on record. Knepp et al. discloses a delivery vehicle comprising proteins, peptides, hormones, non-ionic surfactants, sucrose, raffinose, sorbitol, dextran, buffers and mineral oil. Nuwayser teaches a viscous delivery vehicle comprising biodegradable polymer, glycerol, and microparticles of hormones, steroids and antibacterial agents. Roorda et al. teaches viscous delivery vehicle comprising sorbitol, anti-bacterial agents, antiviral, anti-inflammatory and tissue regeneration agents, polyvinylpyrrolidone and polylactic/glycolic acid. Nuwayser and Roorda et al. teach viscous delivery vehicles comprising antibacterial agents and Nuwayser's vehicle in addition comprises hormones and steroids. Knepp et al. teaches a delivery vehicle comprising

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peptides, proteins, hormones and steroids. The suggestion or motivation stems from the fact that all three references teach delivery vehicles comprising antibacterial agents (Roorda and Nuwayser) and hormones and steroids (Nuwayser and Knepp et al). Thus there is reasonable expectation of success for a delivery vehicle comprising sorbitol, anti-bacterial agents, antiviral, anti-inflammatory and tissue regeneration agents, polyvinylpyrrolidone and polylactic/glycolic acid, proteins, peptides, hormones, non-ionic surfactants, sucrose, raffinose, sorbitol, dextran, buffers, mineral oil, biodegradable polymer, glycerol, and microparticles of hormones and steroids.

Examiner disagrees with applicants that Roorda et al. teaches away from the polymer coated active agent of Nuwayser. In the section cited by the applicant, that is column 2, lines 15-21, Roorda et al. points out one of the solutions offered to improve the teachings of the prior and further states the difficulty associated with that solution. Specifically, Roorda et al. teaches that the particle size influences the release rate of the particles from the vehicle and suggests that one can select a particle size to achieve a desired release rate, and polymer and particle concentration for the desired vehicle viscosity. See paper number 4.

The expected result from combining the teachings of the cited references on record is a non-aqueous uniform bio-compatible viscous delivery vehicle for suspending and delivering beneficial agents at a release rate that is determined by the choice of particle size.

Therefore, it is the position of the examiner that the instant invention is obvious over the cited references of record. Knepp et al. (page 14, lines 11) teaches that it is normal practice to include ascorbic acid, anti-oxidant in dilute aqueous peptide and protein formulations and also

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The objection to claim 34 is maintained.

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that formulation of dry protein or nucleic acid powders is well known in the art (page 17, line 30). It is therefore prima facie obvious to include anti-oxidant in the formulation.

- 2. Applicants' cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blessing M. Fubara whose telephone number is 703-308-8374. The examiner can normally be reached on 7 a.m. to 3:30 p.m. (Monday to Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on 703-308-2927. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3592 for regular communications and 703-305-3592 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1234.

Blessing Fubara December 23, 2000

SUPERVISION RATENT EXAMINER
TECHNOLOGY CENTRAL 1600